

L2 ANSWER 1 OF 1 WPINDEX (C) 2003 THOMSON DERWENT
AN 1997-367061 [34] WPINDEX
DNC C1997-117737
TI Substantially pure microorganism produced uricase - used for quantifying
uric acid in blood or urine.
DC B04 D16
PA (ASAHI) ASAHI KASEI KOGYO KK
CYC 1
PI JP--09154581 A 19970617 (199734)* 12p <--
ADT JP--09154581 A 1995JP-0316359 19951205
PRAI 1995JP-0316359 19951205
AN 1997-367061 [34] WPINDEX
AB JP 09154581 A UPAB: 19970820

A substantially pure microorganism producing uricase, which is a microorganism belonging to the genus *E. coli* transformed with a recombinant vector having a nucleotide sequence coding for the amino acid sequence of residues 1-302 of the 302 amino acid sequence given in the specification, is new. Also claimed are: (1) a substantially pure DNA expressing uricase, which codes for the 302 amino acid sequence given in the specification; and (2) a process for producing uricase, which comprises culturing the above substantially pure microorganism and then recovering uricase from the culture.

USE - The uricase (EC 1.7.3.3.), produced by the microorganism, is used for quantifying uric acid in blood or urine.

ADVANTAGE - As the entire amino acid sequence (302 amino acids) of uricase and the nucleotide sequence (906 bp, given in the specification) coding for the amino acid sequence could be determined in the invention, protein, engineering such as alterations in the specificity of a substrate or coenzyme for this enzyme is made feasible.

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